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**Notice of Allowability**

Application No.

09/682,082

Examiner

Ted T. Vo

Applicant(s)

PONTICELLI ET AL.

Art Unit

2122

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to Supplemental Amendment, 8/27/04.
2. ☒ The allowed claim(s) is/are 23-26.
3. ☐ The drawings filed on \_\_\_\_\_ are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some\* c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

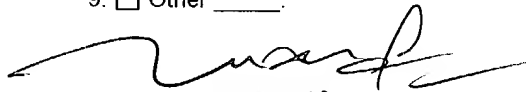
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
6. ☒ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
- (a) ☒ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
- 1) ☒ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

1. ☐ Notice of References Cited (PTO-892)
2. ☒ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date \_\_\_\_\_
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date \_\_\_\_\_
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_

  
TUAN DAM  
SUPERVISORY PATENT EXAMINER

**EXAMINER'S AMENDMENT**

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.

2. After many unsuccessful attempts to reach Applicants' representative, the Examiner Amendment is given to Claims 23-26 for compliance with 37 CFR 1.75(i), a plurality of elements or steps, each element or step of the claim should be separated by a line indentation; and resolving 35 U.S.C. 112 second paragraph issue to place the application in the condition for allowance. Thus, Claims 23-25 have been replaced as below and Claim 26 has been amended to remove such subject matters referring to Claim 10, at lines 7-8, which has been already canceled.

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3. The application has been amended as follows:

In the claims, replace Claims 23-26 as follows:

**Claim 23 (current amended)**, A method for a novel model for dynamic server-side generation of computer program code which can be executed at the client machine, the method comprising the steps of:

having an application consisting of three main sections, which subdivide the application into layers of functionality, the modules section, the options section and the content section;

having an application logic engine;

having a plurality of server and client computing means; and

having the following connected components:

i) an application building engine that functions as a core arbiter that controls and directs the construction of applications and serves as link between all application logic engine modules and other parts of the system;

ii) an application descriptor repository that serves as a data repository that contains details about the application structure, including its modules, options, suboptions and content;

iii) an application descriptor interface that interfaces and acts as an abstraction layer between the application building engine and the application descriptor repository;

iv) an application implementation reference repository is a data repository that contains client-specific implementation details of an application;

v) an application Implementation reference interface that interfaces the application implementation reference repository and application building engine; and

vi) an application logic engine interconnection pipe which interconnects a plurality of application logic engines.

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**Claim 24 (current amended),** A method for a novel model for dynamic server-side generation of computer program code which can be executed at the client machine, the method comprising the steps of:

having an application consisting of three main sections, which subdivide the application into layers of functionality, the modules section, the options section and the content section;

having an application logic engine;

having a plurality of server and client computing means:

posting of a request from a client means to a server means;

examining the request by the server means;

passing the request to the application logic engine on the server means;

having said request contain an application identifier and functionality information;

having said application identifier referring to the type of service in the request;

having said server implement required functionality in a client-specific language and fulfill the request;

retrieving all application structure details including modules, options and suboptions from a data repository;

retrieving the required platform and environment information that implements the required functionality;

interfacing the application structures and required functionality; and

delivering the finished application or an error message if application does not implement all logical descriptors required by the client means application request.

**Claim 25 (current amended),** A computer program product for a novel model for dynamic server-side generation of computer program code which can be executed at the client machine, the computer program product comprising a computer usable medium having computer readable program code thereon, including:

computer code for having an application consisting of three main sections, which subdivide the application into layers of functionality, the modules section, the options section and the content section;

computer code for having an application logic engine; having a plurality of server and client computing means; and having said logic engine having the following connected components:

- i) an application building engine that functions as a core arbiter that controls and directs the construction of applications and serves as link between all application logic engine modules and other parts of the system;
- ii) an application descriptor repository that serves as a data repository that contains details about the application structure, including its modules, options, suboptions and content;
- iii) an application descriptor interface that interfaces and acts as an abstraction layer between the application building engine and the application descriptor repository;
- iv) an application implementation reference repository is a data repository that contains client-specific implementation details of an application;
- v) an application Implementation reference interface that interfaces the application implementation reference repository and application building engine; and
- vi) an application logic engine interconnection pipe which interconnects a plurality of application logic engines.

**Claim 26 (current amended),** A computer program product used to add a new terminal device to a system, the computer program product comprising a computer usable medium having computer readable program code thereon, including:

computer code for having an application consisting of three main sections, which subdivide the application into layers of functionality, the modules section, the options section and the content section;

computer code for having an application logic engine; having a plurality of server and client computing means:

- posting of a request from a client means to a server means;
- examining the request by the server means;

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passing the request to the application logic engine on the server means;  
having said request contain an application identifier and functionality information;  
having said application identifier referring to the type of service in the request;  
having said server implement required functionality in a client-specific language and fulfill  
the request;

retrieving all application structure details including modules, options and suboptions from  
a data repository;

retrieving the required platform and environment information that implements the required  
functionality;

interfacing the application structures and required functionality; and

delivering the finished application or an error message if application does not implement  
all logical descriptors required by the client means application request.

----- END -----

#### Reasons for Allowance

4. The amendment filed on 8/27/04 is fully responsive to the allowance subject matter of the office action mailed on 12/04/03. Independent Claims 23-26 are rewritten in independent form including all of the limitations of the base claim and any intervening claims of Claims 6, 9, 15, and 18, respectively, which have been addressed in Allowable Subject Matter, in the Office Action, mailed date: 12/04/03. Further search is provided; the prior art of record, Dan et al. (US Pat. No. 6,560,639) remains the closest prior art.

5. Claims 23-26 are allowed.

Prior art of record, Dan et al. (US Pat. No. 6,560,639) discloses a method for generating a web page at server-side using a web management system. The web management system, included with an administration directory, has at least three functionality features, modules, options, contents, and comprising application logic engines; server and client computations. Beside these three main functionality features, Dan does not address the extended features addressed in the allowable subject matter in the prior Office action; these extended features are as connected components to the three functionality features, and recited in independent Claim 23-26.

Therefore, the following is an examiner's statement of reasons for allowance:

The cited prior arts taken alone or in combination fail to teach the claims to methods and computer program products comprise at least features:

*" i) an application building engine that functions as a core arbiter that controls and directs the construction of applications and serves as link between all application logic engine modules and other parts of the system;*

*ii) an application descriptor repository that serves as a data repository that contains details about the application structure, including its modules, options, suboptions and content;*



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*iii) an application descriptor interface that interfaces and acts as an abstraction layer between the application building engine and the application descriptor repository;*

*iv) an application implementation reference repository is a data repository that contains client-specific implementation details of an application;*

*v) an application Implementation reference interface that interfaces the application implementation reference repository and application building engine; and*

*vi) an application logic engine interconnection pipe which interconnects a plurality of application logic engines."*, as recited in such manners in independent Claims 23 and 25;

and so as:

*"posting of a request from a client means to a server means;*

*examining the request by the server means;*

*passing the request to the application logic engine on the server means;*

*having said request contain an application identifier and functionality information;*

*having said application identifier referring to the type of service in the request;*

*having said server implement required functionality in a client-specific language and fulfill the request;*

*retrieving all application structure details including modules, options and suboptions from a data repository;*

*retrieving the required platform and environment information that implements the required functionality;*

*interfacing the application structures and required functionality; and*

*delivering the finished application or an error message if application does not implement all logical descriptors required by the client means application request."* as recited in such manners in independent Claims 24 and 26;

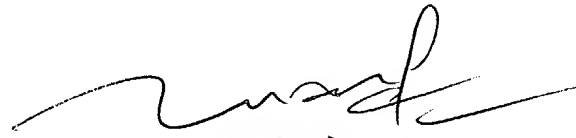
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6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ted T. Vo whose telephone number is (703) 308-9049. The examiner can normally be reached on 8:00AM to 5:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tuan Q. Dam can be reached on (703) 305-4552. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

After October 25, 2004, examiner can be reached at new telephone number (571) 272-3706 and the examiner's supervisor, Tuan Q. Dam can be reached on (571) 272-3694.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



TUAN DAM  
SUPERVISORY PATENT EXAMINER

TTV  
Patent Examiner  
AU 2122  
September 3, 2004